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5 CLAIMS

What is claimed is:

 A method for processing an image, comprising the steps of: comparing a first image intensity associated with a subject image portion with a second image intensity associated with an adjacent image portion;

determining an image intensity difference between the first image intensity and the second image intensity;

classifying the subject image portion as a candidate edge portion in response to a determination that the first image intensity is less than the second image intensity and a determination that the image intensity difference is greater than a predetermined threshold image intensity difference;

determining whether the candidate edge portion is a true edge portion;

associating the subject image portion with a third image intensity, wherein the third image intensity is less than the first image intensity.

- 2. The method of Claim 1, wherein the step of determining whether the candidate edge portion is a true edge portion, comprises the step of determining whether the candidate edge portion is adjacent to at least one second candidate edge portion.
- 3. The method of Claim 2, wherein the step of determining whether the candidate edge portion is a true edge portion, further comprises the step of determining whether the candidate edge portion is adjacent to the second candidate edge portion and to a third candidate edge portion.
- 4. The method of Claim 4, wherein the candidate edge portion, the second candidate edge portion and the third candidate edge portion form a line.
 - 5. The method of Claim 1, wherein the image is a digitized image.
 - 6. The method of Claim 5, wherein the subject image portion is a pixel.
 - 7. The method of Claim 5, wherein the adjacent image portion is a pixel.
- The method of Claim 5, wherein the image is a frame of a video stream.

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- The method of Claim 8, wherein the image intensity is measured in luminance.
- The method of Claim 8, wherein the image intensity is measured in luminance and chrominance.
- 11. The method of Claim 1, wherein the image is an image-type selected 10 from the group consisting of:

animation; computerized banners; real-time streaming video; stored video; and

gaming graphics.

- 12. A system for enhancing a digitized image, comprising:
- a decoder operative to receive an encoded digitized image and to expand the encoded digitized image to generate a decoded digitized image;
- a post-processing unit operative to filter the decoded digitized image to process an image flaw;
- an edge enhancer operative to detect an edge in the decoded digitized image and to enhance the edge in the decoded digitized image.
- 13. The system of Claim 12, wherein the edge is a portion of the decoded digitized image separating a first image portion of substantially uniform image intensity from a second image portion of substantially uniform image intensity.
- The system of Claim 12, wherein the edge is a line in the decoded digitized image.
- 15. The system of Claim 12, wherein the edge enhancer is further operative to detect the edge by comparing a subject portion of the decoded digitized image with a first adjacent portion of the decoded digitized image and with a second portion of the decoded digitized image and determining that the subject portion is associated with a lower image intensity level than a first image intensity associated with the first adjacent portion of the decoded digitized image and a second image intensity associated with the second adjacent portion of the decoded digitized image.

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- 16. The system of Claim 12, wherein the post-processor removes the image flaw from the decoded digitized image, in response to a determination that an image intensity of a pixel associated with the image flaw does not differ from at least one surrounding pixel by more than a threshold value.
 - 17. The system of Claim 12, wherein the post-processor adjusts the image flaw in the decoded digitized image, by modifying an image intensity of a pixel associated with the image flaw to correspond to a median image intensity value of at least one surrounding pixel.
 - 18. A method for detecting and enhancing an edge in a decoded digitized image, comprising the steps of:
 - determining a first image intensity associated with a first pixel in the decoded digitized image;
 - determining a second image intensity associated with a second pixel in the decoded digitized image;
- determining a third image intensity associated with a third pixel in the decoded digitized image;
 - classifying the first pixel as a first candidate edge pixel in response to a determination that the first image intensity is less than the second image intensity and is less than the third image intensity;
 - determining whether the first pixel is adjacent to a second candidate edge pixel;
 - determining whether the second pixel is adjacent to a third candidate edge pixel;
 - classifying the first pixel as a true edge pixel in response to a determination that the first pixel is adjacent to the second candidate edge pixel and the second candidate edge pixel is adjacent to the third candidate edge pixel;
 - associating a fourth image intensity with the first pixel, the fourth image intensity being lower than the first image intensity.
- 19. The method of Claim 18, further comprising the steps of: associating a fifth image intensity with the second pixel, the fifth image intensity being higher than the second image intensity; and

- 5 associating a sixth image intensity with the third pixel, the sixth image intensity being higher than the third image intensity.
 - 20. The method of Claim 18, further comprising the steps of: determining a background color associated with the first pixel; determining a quality level of the digitized image; and selecting the fourth image intensity based on the background color and the quality level.